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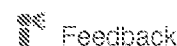
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1　**How to distinguish posed from spontaneous smiles using geometric features**
◈ Michel F. Valstar, Hatice Gunes, Maja Pantic
November 2007 ICMI '07: Proceedings of the 9th international conference on Multimodal
　　　interfaces
Publisher: ACM
Full text available: 📄 pdf(309.24 KB)　Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6,　Downloads (12 Months): 46,　Citation Count: 0

　Automatic distinction between posed and spontaneous expressions is an unsolved
　problem. Previously cognitive sciences' studies indicated that the automatic separation of
　posed from spontaneous expressions is possible using the face modality alone. However,
　...

　Keywords: deception detection, human information processing, multimodal video
　processing

2　**Leveraging context in user-centric entity detection systems**
◈ Vadim von Brzeski, Utku Irmak, Reiner Kraft
November 2007 CIKM '07: Proceedings of the sixteenth ACM conference on Conference on
　　　information and knowledge management
Publisher: ACM
Full text available: 📄 pdf(696.41 KB)　Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8,　Downloads (12 Months): 61,　Citation Count: 0

　A *user-centric* entity detection system is one in which the primary consumer of the
　detected entities is a person who can perform actions on the detected entities (e.g.
　perform a search, view a map, shop, etc.). We contrast this with *machine-centric* ...

　Keywords: content syndication, context, contextual, contextual shortcuts, entity
　detection, information extraction

3　**Finding and linking incidents in news**
◈ Ao Feng, James Allan
November 2007 CIKM '07: Proceedings of the sixteenth ACM conference on Conference on
　　　information and knowledge management
Publisher: ACM

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 71,   Citation Count: 0

News reports are being produced and disseminated in overwhelming volume, making it difficult to keep up with the newest information. Most previous research in automatic news organization treated news topics as a flat list, ignoring the intrinsic connection ...

Keywords: automatic news organization, global optimization, incident threading, simulated annealing, threading rules

4 Intelligent selection of application-specific garbage collectors

Jeremy Singer, Gavin Brown, Ian Watson, John Cavazos
October 2007 ISMM '07: Proceedings of the 6th international symposium on Memory management
Publisher: ACM

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 44,   Citation Count: 0

Java program execution times vary greatly with different garbage collection algorithms. Until now, it has not been possible to determine the best GC algorithm for aparticular program without exhaustively profiling that program for all available GC algorithms. ...

Keywords: application-specific garbage collection, machine learning

5 Measuring Differentiability: Unmasking Pseudonymous Authors

Moshe Koppel, Jonathan Schler, Elisheva Bonchek-Dokow
October 2007 The Journal of Machine Learning Research,   Volume 8
Publisher: MIT Press

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 28,   Citation Count: 0

In the authorship verification problem, we are given examples of the writing of a single author and are asked to determine if given long texts were or were not written by this author. We present a new learning-based method for adducing the "depth of ...

6 Generating semantically enriched user profiles for Web personalization

Sarabjot Singh Anand, Patricia Kearney, Mary Shapcott
October 2007 ACM Transactions on Internet Technology (TOIT),   Volume 7 Issue 4
Publisher: ACM

Bibliometrics: Downloads (6 Weeks): 41,   Downloads (12 Months): 422,   Citation Count: 0

Traditional collaborative filtering generates recommendations for the active user based solely on ratings of items by other users. However, most businesses today have item ontologies that provide a useful source of content descriptors that can be used ...

Keywords: Collaborative filtering, evaluation, implicit ratings, personalization, similarity metric

7

Affective multimodal mirror: sensing and eliciting laughter

Willem A. Melder, Khiet P. Truong, Marten Den Uyl, David A. Van Leeuwen, Mark A. Neerincx, Lodewijk R. Loos, B. Stock Plum
September 2007 HCM '07: Proceedings of the international workshop on Human-centered multimedia
Publisher: ACM
Full text available: pdf(915.03 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 81,   Citation Count: 0

In this paper, we present a multimodal affective mirror that senses and elicits laughter. Currently, the mirror contains a vocal and a facial affect-sensing module, a component that fuses the output of these two modules to achieve a user-state assessment, ...

Keywords: affective mirror, face voice emotion expression, multi modal laughter recognition

8 Applying link-based classification to label blogs
Smriti Bhagat, Irina Rozenbaum, Graham Cormode
August 2007 WebKDD/ SNA-KDD '07: Proceedings of the 9th WebKDD and 1st SNA-KDD 2007 workshop on Web mining and social network analysis
Publisher: ACM
Full text available: pdf(643.11 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 21,   Downloads (12 Months): 21,   Citation Count: 0

In analyzing data from social and communication networks, we encounter the problem of classifying objects where there is an explicit link structure amongst the objects. We study the problem of inferring the classification of all the objects from a labeled ...

Keywords: graph labeling, relational learning, social networks

9 Improved error reporting for software that uses black-box components
Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. Ramadan, Donald E. Porter, David L. Chen, Emmett Witchel
June 2007 PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference on Programming language design and implementation
Publisher: ACM
Full text available: pdf(345.48 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 32,   Downloads (12 Months): 236,   Citation Count: 1

An error occurs when software cannot complete a requested action as a result of some problem with its input, configuration, or environment. A high-quality error report allows a user to understand and correct the problem. Unfortunately, the quality of ...

Keywords: classification, error report, machine learning, profiling, software support

10 Improved error reporting for software that uses black-box components
Jungwoo Ha, Christopher J. Rossbach, Jason V. Davis, Indrajit Roy, Hany E. Ramadan, Donald E. Porter, David L. Chen, Emmett Witchel
June 2007 ACM SIGPLAN Notices,   Volume 42 Issue 6
Publisher: ACM
Full text available: pdf(345.48 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 32,   Downloads (12 Months): 236,   Citation Count: 1

An error occurs when software cannot complete a requested action as a result of some problem with its input, configuration, or environment. A high-quality error report allows a user to understand and correct the problem. Unfortunately, the quality of ...

Keywords: classification, error report, machine learning, profiling, software support

11   Distinctive regions of 3D surfaces
Philip Shilane, Thomas Funkhouser
June 2007 ACM Transactions on Graphics (TOG),   Volume 26 Issue 2
Publisher: ACM
Full text available: pdf(6.01 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15,   Downloads (12 Months): 355,   Citation Count: 0

Selecting the most important regions of a surface is useful for shape matching and a variety of applications in computer graphics and geometric modeling. While previous research has analyzed geometric properties of meshes in isolation, we select regions ...

Keywords: Distinct features, partial matching, shape distinction, similarity, visualization

12   Privacy-enhancing personalized web search
Yabo Xu, Ke Wang, Benyu Zhang, Zheng Chen
May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web
Publisher: ACM
Full text available: pdf(310.76 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22,   Downloads (12 Months): 357,   Citation Count: 0

Personalized web search is a promising way to improve search quality by customizing search results for people with individual information goals. However, users are uncomfortable with exposing private preference information to search engines. On the other ...

Keywords: hierarchical user profile, personalized search, privacy

13   Answering bounded continuous search queries in the world wide web
Dirk Kukulenz, Alexandros Ntoulas
May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web
Publisher: ACM
Full text available: pdf(244.01 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 139,   Citation Count: 0

Search queries applied to extract relevant information from the World Wide Web over a period of time may be denoted as continuous search queries. The improvement of continuous search queries may concern not only the quality of retrieved results but also ...

Keywords: continuous queries, monitoring search, optimal stopping

14   Fast compiler optimisation evaluation using code-feature based performance prediction
Christophe Dubach, John Cavazos, Björn Franke, Grigori Fursin, Michael F.P. O'Boyle, Olivier

Temam
May 2007 CF '07: Proceedings of the 4th international conference on Computing frontiers
Publisher: ACM
Full text available: pdf(409.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 95,   Citation Count: 0

Performance tuning is an important and time consuming task which may have to be repeated for each new application and platform. Although iterative optimisation can automate this process, it still requires many executions of different versions of the ...

Keywords: architecture, artificial neural networks, compiler optimisation, learning, machine, performance modelling

15 Semantically enhanced user modeling

Palakorn Achananuparp, Hyoil Han, Olfa Nasraoui, Roberta Johnson
March 2007 SAC '07: Proceedings of the 2007 ACM symposium on Applied computing
Publisher: ACM
Full text available: pdf(120.20 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 159,   Citation Count: 0

Content-based implicit user modeling techniques usually employ a traditional term vector as a representation of the user's interest. However, due to the problem of dimensionality in the vector space model, a simple term vector is not a sufficient representation ...

Keywords: content-based user modeling, implicit user modeling, semantic techniques

16 A 1000-word vocabulary, speaker-independent, continuous live-mode speech recognizer implemented in a single FPGA

Edward C. Lin, Kai Yu, Rob A. Rutenbar, Tsuhan Chen
February 2007 FPGA '07: Proceedings of the 2007 ACM/SIGDA 15th international symposium on Field programmable gate arrays
Publisher: ACM
Full text available: pdf(656.17 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 242,   Citation Count: 0

The Carnegie Mellon *In Silico Vox* project seeks to move best-quality speech recognition technology from its current software-only form into a range of efficient all-hardware implementations. The central thesis is that, like graphics chips, the ...

Keywords: DSP, FPGA, in silico vox, speech recognition

17 Detecting social interactions of the elderly in a nursing home environment

Datong Chen, Jie Yang, Robert Malkin, Howard D. Wactlar
February 2007 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP),   Volume 3 Issue 1
Publisher: ACM
Full text available: pdf(1.57 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28,   Downloads (12 Months): 459,   Citation Count: 0

Social interaction plays an important role in our daily lives. It is one of the most important indicators of physical or mental changes in aging patients. In this article, we investigate the problem of detecting social interaction patterns of patients ...

Keywords: Multimedia processing, health care, human activity, social interaction, stochastic modeling

18 Interest-based personalized search
Zhongming Ma, Gautam Pant, Olivia R. Liu Sheng
February 2007 ACM Transactions on Information Systems (TOIS), Volume 25 Issue 1
Publisher: ACM
Full text available: pdf(1.58 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 903, Citation Count: 0

Web search engines typically provide search results without considering user interests or context. We propose a personalized search approach that can easily extend a conventional search engine on the client side. Our mapping framework automatically maps ...

Keywords: Open Directory, Personalized search, World Wide Web, information retrieval, user interest, user interface

19 On the medical frontier: the 2006 KDD Cup competition and results
Terran Lane, Bharat Rao, Jinbo Bi, Jianming Liang, Marcos Salganicoff
December 2006 ACM SIGKDD Explorations Newsletter, Volume 8 Issue 2
Publisher: ACM
Full text available: pdf(529.01 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 60, Citation Count: 0

The 2006 KDD Cup Competition featured three data mining tasks drawn from a medical imaging domain. At the core, all of these tasks were concerned with identifying pulmonary embolisms (PEs) from pre-processed computed tomography (CT) images of human lungs. ...

20 A Hierarchy of Support Vector Machines for Pattern Detection
Hichem Sahbi, Donald Geman
December 2006 The Journal of Machine Learning Research, Volume 7
Publisher: MIT Press
Full text available: pdf(899.18 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 192, Citation Count: 0

We introduce a computational design for pattern detection based on a tree-structured network of support vector machines (SVMs). An SVM is associated with each cell in a recursive partitioning of the space of patterns (hypotheses) into increasingly finer ...

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